

17) 2 sides congruent

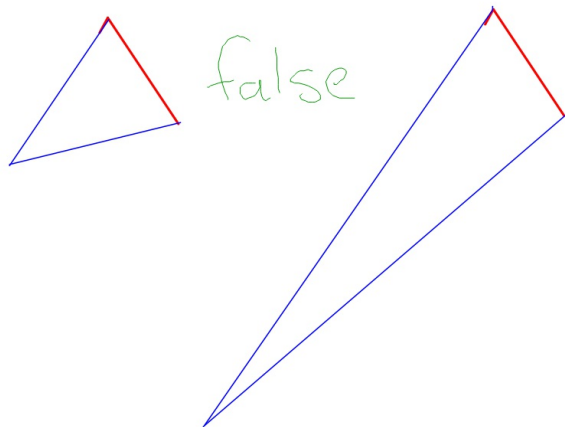
10/31/16



21) 3 sides



19) 1 side, 1 angle



p.203 #17, 19, 21

15) A(1, 3) B(6, 0) C(4, 3) D(1, -2)

11/01/16

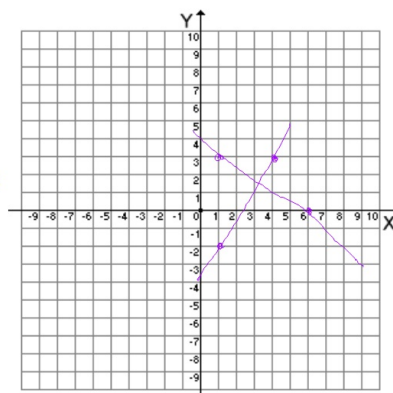
1,3 6,0 4,3 1,-2

$$\frac{0-3}{6-1} = -\frac{3}{5}$$

$$\frac{-2-3}{1-4} = \frac{5}{3} = \frac{5}{3}$$

$$\frac{y_2 - y_1}{x_2 - x_1}$$

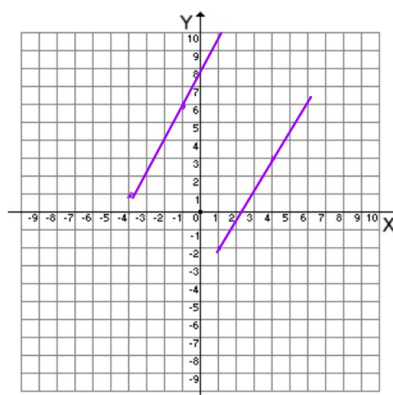
perpendicular



16) F(-4, 1) G(-1, 6) C(4, 3) D(1, -2)

$$\frac{1-6}{-4-1} = \frac{5}{3} \quad \frac{3-2}{4-1} = \frac{1}{3}$$

Parallel



p.208 #15 & 16

11/02/16

Find the equation of the perpendicular bisector of the segment with endpoints (2, 9) and (-6, -7).

$$\frac{-7-9}{-6-2} = \frac{-16}{-8} = 2$$

$$\frac{2}{1} \perp \left(-\frac{1}{2}\right)$$

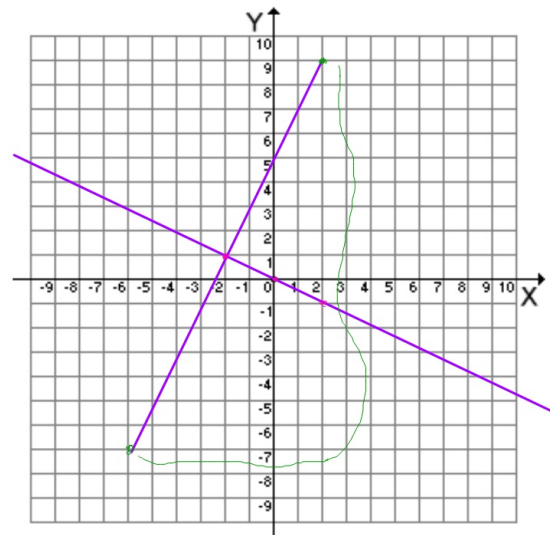
$$(-6, -7) \quad (x+4, y+8)$$

$$(-2, 1)$$

$$y-1 = -\frac{1}{2}(x+2)$$

$$y-1 = -\frac{1}{2}x - 1$$

$$y = -\frac{1}{2}x$$



p.212 #9 & 10

11/03/16

$$9) y = 4x + 80$$

$$10) y - y_1 = m(x - x_1)$$

m.d point (x_1, y_1)

Slope -3

$$y - 5 = -3(x - 7)$$

$$y - 5 = -3x + 21$$

$$y = -3x + 26$$

$$(3, 4) \quad (11, 6) \quad (x+4, y+1)$$

$$\frac{11-3}{2} = \frac{8}{2} = 4 \quad \frac{6-4}{2} = \frac{2}{2} = 1$$

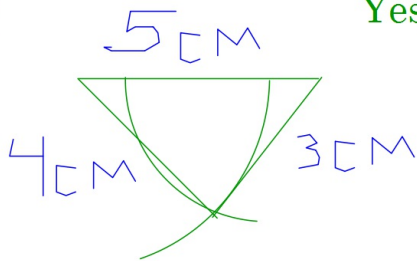
$$(3+4, 4+1)$$

$$(7, 5)$$

$$x_1 \quad y_1$$

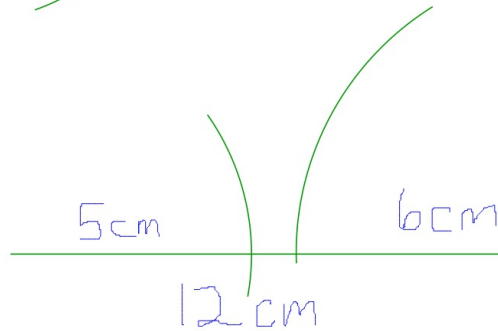
1)

Yes, you can.



3)

No, because the two shorter sides do not add together to longer than the third side.



11)

$$54 - 48 = 6$$

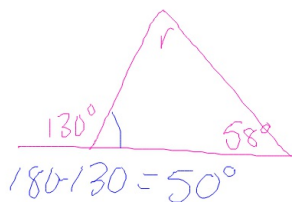


$$6 < r < 102$$

$$54 + 48 = 102$$



15)

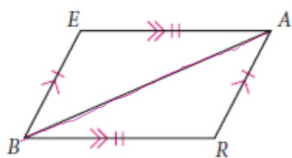


$$130 - 58 = r \quad r = 72^\circ$$

$$50 + 58 = 108^\circ$$

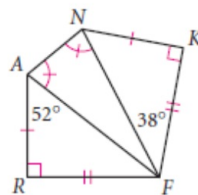
$$\begin{array}{r} 180 \\ - 108 \\ \hline 72^\circ \end{array}$$

21. $\triangle \underline{BAR} \cong \triangle ?$ (h)



$\triangle ABE$ named in the
via $\underline{\quad\quad}$ same order
SSS as the sides
of the original

22. $\triangle \underline{FAR} \cong \triangle ?$



$\triangle FNK$
via SAS

p. 228 #15
paragraph proof
to be turned in

LI
 $\triangle TIE$

p. 231 #6
paragraph proof
to be turned in

11/14/16

p. 231 #6
paragraph proof
to be turned in

11/15/16

p. 238 #6
Flowchart proof
to be turned in

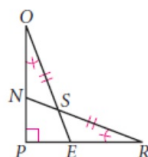
11/16/16

// means parallel

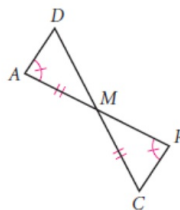
p. 239 #10-12

11/17/16

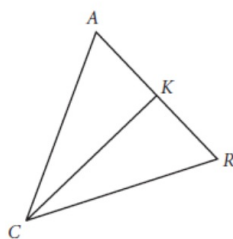
10. $\overline{PO} \cong \overline{PR}$
 $\triangle POE \cong \triangle \underline{\hspace{1cm}}$
 $\triangle SON \cong \triangle \underline{\hspace{1cm}}$



11. $\triangle \underline{\hspace{1cm}} \cong \triangle \underline{\hspace{1cm}}$ (h)



12. $\overline{AC} \cong \overline{CR}$, \overline{CK} is a median
of $\triangle ARC$. $\triangle RCK \cong \triangle \underline{\hspace{1cm}}$



11/28/16

Pass in completed unit tests.

11/30/16

p.262 #2 & 3

12/01/16

Exercise #15 DG p. 271 on your own,
on a separate paper to be turned in.

12/02/16

p. 277 #13

12/05/16

p. 282 #13
to turn in

12/06/16

p. 291 #20-21